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02/07/02

PATENT NUMBER and  
ISSUE DATE

U.S. UTILITY Patent Application

|   |                           |                                  |                  |                              |                  |
|---|---------------------------|----------------------------------|------------------|------------------------------|------------------|
| APPL NUM<br>10067320  | FILING DATE<br>02/07/2002 | CLASS<br>257                     | SUBCLASS<br>2811 | GAU<br>2811                  | EXAMINER<br>HUYH |
| <b>**APPLICANTS:</b> Watanabe Shinya; Katou Hiroyuki;   |                           |                                  |                  |                              |                  |
| <b>**CONTINUING DATA VERIFIED:</b>  |                           |                                  |                  |                              |                  |
| <b>** FOREIGN APPLICATIONS VERIFIED:</b><br>JAPAN 2001-046663 02/22/2001  |                           |                                  |                  |                              |                  |
| PG-PUB <input type="checkbox"/> DO NOT PUBLISH <input type="checkbox"/>   |                           | RESCIND <input type="checkbox"/> |                  |                              |                  |
| Foreign priority claimed <input type="checkbox"/> yes <input type="checkbox"/> no<br>35 USC 119 conditions met <input type="checkbox"/> yes <input type="checkbox"/> no<br>Verified and Acknowledged Examiners's initials |                           |                                  |                  | ATTORNEY DOCKET NO<br>Q67357 |                  |
| <b>TITLE :</b> Semiconductor chip having an arrayed waveguide grating and method of manufacturing the semiconductor chip and module containing the semiconductor chip   |                           |                                  |                  |                              |                  |

U.S. DEPT. OF COMM./PAT & TM-PTO-436L (Rev. 12-94)

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|--|-----------|-----------------------------|------------------------|
| <b>NOTICE OF ALLOWANCE MAILED</b>  |           | <b>CLAIMS ALLOWED</b>       |                        |
|  |           | Total Claims                | Print Claim for O.G.   |
| <b>ISSUE FEE</b>   |           | <b>DRAWING</b>              |                        |
| Amount Due   | Date Paid | Sheets Drwg.                | Figs. Drwg. Print Fig. |
|  |           |                             |                        |
| <input type="checkbox"/> <b>TERMINAL<br/>DISCLAIMER</b>  |           | <b>Application Examiner</b> |                        |
|  |           | <b>PREPARED FOR ISSUE</b>   |                        |
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